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1645

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/770,916

DATE: 01/29/2002
TIME: 12:06:18

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3 <110> APPLICANT: Frank, Dara W.
4 Wiener-Kronish, Jeannine
5 Yahr, Timothy L.
6 Sawa, Teiji
7 Fritz, Robert B.
9 <120> TITLE OF INVENTION: Method of and compositions for immunization with the
10 pseudomonas v antigen
12 <130> FILE REFERENCE: 650053.91487
14 <140> CURRENT APPLICATION NUMBER: 09/770,916
15 <141> CURRENT FILING DATE: 2001-01-26
17 <150> PRIOR APPLICATION NUMBER: 09/448,339
18 <151> PRIOR FILING DATE: 1999-11-23
20 <150> PRIOR APPLICATION NUMBER: 60/109,952
21 <151> PRIOR FILING DATE: 1998-11-25
23 <150> PRIOR APPLICATION NUMBER: 60/126,794
24 <151> PRIOR FILING DATE: 1999-03-30
26 <160> NUMBER OF SEQ ID NOS: 4
28 <170> SOFTWARE: PatentIn Ver. 2.1
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1/29/02

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87 ttc tgc ctg gtg aca ttc cca agc tgt gtc cta tcc cag gtg cag ctg 101
88 Phe Cys Leu Val Thr Phe Pro Ser Cys Val Leu Ser Gln Val Gln Leu
89 10 15 20
91 aag cag tca gga cct ggc cta gtg cag ccc tca cag agc ctg tcc atc 149
92 Lys Gln Ser Gly Pro Gly Leu Val Gln Pro Ser Gln Ser Leu Ser Ile
93 25 30 35
95 acc tgc aca gtc tct ggt ttc tca tta act agc tat ggt gta cac tgg 197
96 Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Ser Tyr Gly Val His Trp
97 40 45 50 55
99 gtt cgt cag tct cca gga aag ggt ctg gag tgg ctg gga gtg ata tgg 245
100 Val Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Leu Gly Val Ile Trp
101 60 65 70
103 agt ggt gga gac aca gac tat aat gca gct ttc ata tcc aga ctg agc 293
104 Ser Gly Gly Asp Thr Asp Tyr Asn Ala Ala Phe Ile Ser Arg Leu Ser
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108 Ile Ser Lys Asp Asn Ser Lys Ser Gln Leu Phe Phe Lys Met Asn Ser
109 90 95 100
111 ctg cga gct act gac aca gcc ata tat tac tgt gcc aga aat aga ggg 389
112 Leu Arg Ala Thr Asp Thr Ala Ile Tyr Tyr Cys Ala Arg Asn Arg Gly
113 105 110 115
115 gat att tac tat gat ttc act tat gcc atg gac tac tgg ggt caa gga 437
116 Asp Ile Tyr Tyr Asp Phe Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly
117 120 125 130 135
119 acc tca gtc acc gtc tcc tca gcc aaa aca aca ccc cca tca gtc tat 485
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131	aac tct gga tcc ctg tcc agc agt gtg cac acc ttc cca gct ctc ctg							
132	Asn Ser Gly Ser Leu Ser Ser Ser Val His Thr Phe Pro Ala Leu Leu							
133		185		190		195		677
135	cag tct gga ctc tac act atg agc agc tca gtg act gtc ccc tcc agc							
136	Gln Ser Gly Leu Tyr Thr Met Ser Ser Ser Val Thr Val Pro Ser Ser							
137	200		205		210			725
139	acc tgg cca agt cag acc gtc acc tgc agc gtt gct cac cca gcc agc							
140	Thr Trp Pro Ser Gln Thr Val Thr Cys Ser Val Ala His Pro Ala Ser							
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152	Asn Leu Glu Gly Gly Pro Ser Val Phe Ile Phe Pro Pro Asn Ile Lys							
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156	Asp Val Leu Met Ile Ser Leu Thr Pro Lys Val Thr Cys Val Val Val							
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168	Asn Ser Thr Ile Arg Val Val Ser Thr Leu Pro Ile Gln His Gln Asp							
169		330		335		340		1109
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176	Pro Ser Pro Ile Glu Arg Thr Ile Ser Lys Ile Lys Gly Leu Val Arg							
177	360		365		370			1205
179	gct cca caa gta tac atc ttg ccg cca cca gca gag cag ttg tcc agg							
180	Ala Pro Gln Val Tyr Ile Leu Pro Pro Pro Ala Glu Gln Leu Ser Arg							
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184	Lys Asp Val Ser Leu Thr Cys Leu Val Val Gly Phe Asn Pro Gly Asp							
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197 440 445 450 455
199 tgc aac gtg aga cac gag ggt ctg aaa aat tac tac ctg aag aag acc 1445
200 Cys Asn Val Arg His Glu Gly Leu Lys Asn Tyr Tyr Leu Lys Lys Thr
201 460 465 470
203 atc tcc cgg tct ccg ggt aaa tgagctcagc acccaciaaag ctctcaggtc 1496
204 Ile Ser Arg Ser Pro Gly Lys
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230 Glu Trp Leu Gly Val Ile Trp Ser Gly Gly Asp Thr Asp Tyr Asn Ala
231 65 70 75 80
233 Ala Phe Ile Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln
234 85 90 95
236 Leu Phe Phe Lys Met Asn Ser Leu Arg Ala Thr Asp Thr Ala Ile Tyr
237 100 105 110
239 Tyr Cys Ala Arg Asn Arg Gly Asp Ile Tyr Tyr Asp Phe Thr Tyr Ala
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252 180 185 190
254 His Thr Phe Pro Ala Leu Leu Gln Ser Gly Leu Tyr Thr Met Ser Ser
255 195 200 205
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258 210 215 220
260 Ser Val Ala His Pro Ala Ser Ser Thr Thr Val Asp Lys Lys Leu Glu
261 225 230 235 240

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270 275 280 285
272 Lys Val Thr Cys Val Val Val Asp Val Ser Glu Asp Asp Pro Asp Val
273 290 295 300
275 Gln Ile Ser Trp Phe Val Asn Asn Val Glu Val His Thr Ala Gln Thr
276 305 310 315 320
278 Gln Thr His Arg Glu Asp Tyr Asn Ser Thr Ile Arg Val Val Ser Thr
279 325 330 335
281 Leu Pro Ile Gln His Gln Asp Trp Met Ser Gly Lys Glu Phe Lys Cys
282 340 345 350
284 Lys Val Asn Asn Lys Asp Leu Pro Ser Pro Ile Glu Arg Thr Ile Ser
285 355 360 365
287 Lys Ile Lys Gly Leu Val Arg Ala Pro Gln Val Tyr Ile Leu Pro Pro
288 370 375 380
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291 385 390 395 400
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297 420 425 430
299 Gly Ser Tyr Phe Ile Tyr Ser Lys Leu Asn Met Lys Thr Ser Lys Trp
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VERIFICATION SUMMARY

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